

The Hong Kong University of Science and Technology

UG Course Syllabus

Course Title: ENVIRONMENTAL ASSESSMENT AND MANAGEMENT

Course Code: CIVL2410

No. of Credits: 3

pre-/co-requisites: CHEM1010/1020 and CIVL1100

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Course Description

Present current environmental issues and management concepts; apply essential chemical and physical principles required to understand pollution problems; integrate knowledge from science and engineering to solve and assess environmental problems affecting water, air, noise and waste; cover concepts, ordinances and case studies of environmental impact assessment of civil infrastructure projects (Prerequisites: CHEM1010/1020 and CIVL1100).

This course consists of two parts: 1) Lectures about essential concepts and principles in the fields of environmental engineering and management and environmental impact assessment, and 2) an individual project report on a listed environmental impact assessment (EIA) report. For the project report of an EIA project report, students are expected to self-study an executive summary of a listed EIA project available in EPD website to formulate a summary report, with emphases on their understanding and appreciation on the EIA project. Details of the project report will be announced later.

Assessments:

| Assessment Task | Contribution to Overall Course grade (%) |
|----------------------|--|
| Examine 1 | 40% |
| Examine 2 | 30% |
| Final Project Report | 10% |
| Homework | 20% |

Required Texts and Materials

Masters, Gilbert M. and Wendell P. Ela (2014). Introduction to Environmental Engineering and Science, New International Edition. Prentice-Hall, NJ. [Available on-line]

Additional Resources

Davis, Mackenzie L. and David Cornwell (2013). Introduction to Environmental Engineering, 5th edition. McGraw Hill, NY. [Available in the library course reserve.]

List of EIA Reports available at:

<https://www.epd.gov.hk/eia/english/register/aeiara/all.html>